

APPENDIX A

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Table A-1. Number and percent of foreign S&E doctoral recipients from major countries of origin with plans to stay in the United States: 1985-96¹

Years	Total S&E doctoral recipients	Foreign S&E doctoral recipients				
		Total	With plans to stay	Percent	With firm plans to stay	Percent
1985.....	18,113	2,401	1,201	50.0	963	40.1
1986.....	19,437	2,613	1,322	50.6	1,111	42.5
1987.....	19,894	3,018	1,479	49.0	1,257	41.7
1988.....	20,933	3,383	1,729	51.1	1,444	42.7
1989.....	21,731	3,795	1,873	49.4	1,575	41.5
1990.....	22,867	5,002	2,449	49.0	1,778	35.5
1991.....	24,019	6,167	3,690	59.8	2,397	38.9
1992.....	24,673	6,625	4,274	64.5	2,541	38.4
1993.....	25,441	7,014	4,480	63.9	2,516	35.9
1994.....	26,202	7,590	5,108	67.3	2,805	37.0
1995.....	26,515	7,842	5,533	70.6	3,000	38.3
1996.....	27,230	8,026	5,781	72.0	3,713	46.3

1 Foreign doctoral recipients from major countries of origin: Asia, Europe, and North America.

Asia includes China, India, Japan, South Korea, and Taiwan. Europe includes all Scandinavian, Western, and Eastern European countries. North America includes Canada and Mexico.

SOURCE: National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*, special tabulations.

Table A-2. Number and percent of foreign S&E doctoral recipients with plans to stay in the United States, by selected countries/regions: 1988-96

Region/country	Foreign S&E doctoral recipients				
	Total	With plans to stay	Percent	With firm plans to stay	Percent
Total: Selected countries	55,444	34,917	63.0	21,779	39.3
Asia.....	43,171	28,280	65.5	16,964	39.3
China.....	16,550	14,145	85.5	7,935	47.9
India.....	7,843	6,200	79.1	4,290	54.7
Korea.....	8,851	3,197	36.1	2,005	22.7
Taiwan.....	9,927	4,738	47.7	2,734	27.5
Europe.....	8,760	4,898	55.9	3,521	40.2
France.....	653	275	42.1	181	27.7
Germany.....	1,283	714	55.7	520	40.5
Greece.....	1,343	710	52.9	494	36.8
Italy.....	658	288	43.8	198	30.1
United Kingdom.....	1,132	784	69.3	595	52.6
Other Western European Countries.	1,725	870	50.4	655	38.0
Scandinavian countries.....	612	276	45.1	195	31.9
Eastern Europe.....	1,354	981	72.5	683	50.4
North America.....	3,513	1,739	49.5	1,294	36.8
Canada.....	2,387	1,322	55.4	1,027	43.0
Mexico.....	1,126	417	37.0	267	23.7

SOURCE: National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*, special tabulations.

Table A-3. Foreign S&E doctoral recipients with firm plans to stay in the United States, by year of degree: selected Asian countries

Years	China	India	Taiwan	South Korea
1990.....	477	342	287	200
1991.....	858	365	315	210
1992.....	988	442	318	192
1993.....	1,003	409	269	188
1994.....	1,138	486	287	204
1995.....	1,241	573	266	193
1996.....	1,680	692	314	215

SOURCE: National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*, special tabulations.

Table A-4. Number and percent of S&E doctoral recipients with plans to stay in the United States, from China and all other countries¹

All countries except China	Foreign S&E doctoral recipients				
	Total	With plans to stay	Percent	With firm plans plans to stay	Percent
1985.....	2,266	1,148	50.7	927	40.9
1986.....	2,415	1,216	50.4	1,022	42.3
1987.....	2,725	1,316	48.3	1,123	41.2
1988.....	2,903	1,445	49.8	1,213	41.8
1989.....	3,175	1,492	47.0	1,262	39.7
1990.....	3,852	1,762	45.7	1,301	33.8
1991.....	4,374	2,261	51.7	1,539	35.2
1992.....	4,580	2,465	53.8	1,553	33.9
1993.....	4,787	2,505	52.3	1,513	31.6
1994.....	5,059	2,763	54.6	1,667	33.0
1995.....	5,090	2,988	58.7	1,759	34.6
1996.....	5,074	3,091	60.9	2,033	40.1
China					
1985.....	135	53	39.3	36	26.7
1986.....	198	106	53.5	89	44.9
1987.....	293	163	55.6	134	45.7
1988.....	480	284	59.2	231	48.1
1989.....	620	381	61.5	313	50.5
1990.....	1,150	687	59.7	477	41.5
1991.....	1,793	1,429	79.7	858	47.9
1992.....	2,045	1,809	88.5	988	48.3
1993.....	2,227	1,975	88.7	1,003	45.0
1994.....	2,531	2,345	92.6	1,138	45.0
1995.....	2,752	2,545	92.5	1,241	45.1
1996.....	2,952	2,690	91.1	1,680	56.9

¹ Foreign doctoral recipients from selected countries of Asia, Europe, and North America. Asia includes India, Japan, South Korea, and Taiwan. Europe includes all Scandinavian, Western, and Eastern European countries. North America includes Canada and Mexico.

SOURCE: National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*, special tabulations.

Table A-5. Number and percent of foreign S&E doctoral recipients with firm plans to stay in the United States, by primary activity and region/country: 1988-96

Region/country	Total foreign S&E doctorates	Total with firm plans	Percent	Primary activity							
				Postdoctoral study	Percent	Employment					
						Total Employment	Percent	R&D	Percent	Teaching	Percent
Total.....	55,444	21,770	39.3	12,252	22.1	9,517	17.2	6,116	11.0	1,566	2.8
Asia.....	43,171	16,956	39.3	9,766	22.6	7,189	16.7	4,812	11.1	985	2.3
China.....	16,550	7,930	47.9	5,085	30.7	2,845	17.2	1,866	11.3	345	2.1
India.....	7,843	4,291	54.7	1,828	23.3	2,463	31.4	1,634	20.8	359	4.6
Korea.....	8,851	2,002	22.6	1,505	17.0	497	5.6	311	3.5	128	1.4
Taiwan.....	9,927	2,733	27.5	1,348	13.6	1,384	13.9	1,001	10.1	153	1.5
Europe.....	8,760	3,520	40.2	1,822	20.8	1,698	19.4	980	11.2	430	4.9
France.....	653	181	27.7	85	13.0	96	14.7	61	9.3	23	3.5
Germany.....	1,283	520	40.5	285	22.2	235	18.3	130	10.1	64	5.0
Greece.....	1,343	494	36.8	227	16.9	267	19.9	153	11.4	72	5.4
Italy.....	658	198	30.1	94	14.3	104	15.8	59	9.0	25	3.8
United Kingdom.....	1,132	595	52.6	302	26.7	293	25.9	139	12.3	92	8.1
Other Western European countries.....	1,725	655	38.0	345	20.0	310	18.0	193	11.2	69	4.0
Scandinavian countries.....	612	195	31.9	96	15.7	99	16.2	60	9.8	19	3.1
Eastern Europe.....	1,354	682	50.4	388	28.7	294	21.7	185	13.7	66	4.9
North America.....	3,513	1,294	36.8	664	18.9	630	17.9	324	9.2	151	4.3
Canada.....	2,387	1,027	43.0	523	21.9	504	21.1	257	10.8	117	4.9
Mexico.....	1,126	267	23.7	141	12.5	126	11.2	67	6.0	34	3.0

SOURCE: National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*, special tabulations.

Table A-6. Number and percent of foreign S&E doctoral recipients with firm employment offers in the United States, by type of employer and region/country of origin: 1988–96

Region/country	Total	Foreign S&E doctorates		Type of employer					
		With firm employment offer	Percent	Educational institution	Percent	Business/industry	Percent	Government, nonprofit and other	Percent
Total.....	55,444	9,517	17.2	3,480	6.3	5,298	9.6	738	1.3
Asia.....	43,171	7,189	16.7	2,210	5.1	4,481	10.4	497	1.2
China.....	16,550	2,845	17.2	874	5.3	1,738	10.5	232	1.4
India.....	7,843	2,463	31.4	744	9.5	1,565	20.0	154	2.0
Korea.....	8,851	497	5.6	248	2.8	206	2.3	43	0.5
Taiwan.....	9,927	1,384	13.9	344	3.5	972	9.8	68	0.7
Europe.....	8,760	1,698	19.4	951	10.9	577	6.6	170	1.9
France.....	653	96	14.7	40	6.1	44	6.7	12	1.8
Germany.....	1,283	235	18.3	143	11.1	66	5.1	26	2.0
Greece.....	1,343	267	19.9	148	11.0	110	8.2	9	0.7
Italy.....	658	104	15.8	70	10.6	20	3.0	14	2.1
United Kingdom.....	1,132	293	25.9	178	15.7	75	6.6	40	3.5
Other Western European countries.....	1,725	310	18.0	169	9.8	105	6.1	36	2.1
Scandinavian countries.....	612	99	16.2	51	8.3	34	5.6	14	2.3
Eastern Europe.....	1,354	294	21.7	152	11.2	123	9.1	19	1.4
North America.....	3,513	630	17.9	319	9.1	240	6.8	71	2.0
Canada.....	2,387	504	21.1	257	10.8	191	8.0	56	2.3
Mexico.....	1,126	126	11.2	62	5.5	49	4.4	15	1.3

SOURCE: National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*, special tabulations.

Table A-7. Number and percent of foreign S&E doctoral recipients with plans to stay in the United States, by field: 1988–96

Field	Foreign S&E doctorates				
	Total	With plans to stay	Percent	With firm plans to stay	Percent
Total S&E	55,444	34,917	63.0	21,770	39.3
Physical sciences.....	9,874	6,968	70.6	4,510	45.7
Earth sciences.....	1,541	968	62.8	555	36.0
Mathematics.....	3,490	2,134	61.1	1,284	36.8
Computer sciences.....	2,613	1,734	66.4	1,206	46.2
Engineering.....	19,030	11,484	60.3	6,474	34.0
Biological sciences.....	9,149	7,092	77.5	5,001	54.7
Agricultural sciences	2,050	1,042	50.8	550	26.8
Psychology/ social sciences.....	7,697	3,495	45.4	2,189	28.4

SOURCE: National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*, special tabulations.

**Table A-8. Number and percent of foreign S&E doctoral recipients with firm offers to stay in the United States, by field and main activity:
1988–96**

Field	Foreign S&E doctorates			Firm offers				Firm employment by type of activity					
	Total	Total with firm offers	Percent	Postdoctoral appointment	Percent	Employment	Percent	R&D	Percent	Teaching	Percent	Other	Percent
Total S&E.....	55,444	21,770	39.3	12,252	22.1	9,518	17.2	6,116	11.0	1,566	2.8	1,835	3.3
Physical sciences.....	9,874	4,510	45.7	3,590	36.4	920	9.3	687	7.0	61	0.6	172	1.7
Earth sciences.....	1,541	555	36.0	371	24.1	184	11.9	107	6.9	17	1.1	80	5.2
Mathematics.....	3,490	1,284	36.8	453	13.0	831	23.8	366	10.5	294	8.4	171	4.9
Computer sciences.....	2,613	1,206	46.2	199	7.6	1,007	38.5	710	27.2	176	6.7	121	4.6
Engineering.....	19,030	6,474	34.0	2,195	11.5	4,279	22.5	3,176	16.7	365	1.9	738	3.9
Biological sciences.....	9,149	5,001	54.7	4,580	50.1	421	4.6	258	2.8	54	0.6	109	1.2
Agricultural sciences	2,050	550	26.8	410	20.0	150	7.3	103	5.0	14	0.7	33	1.6
Psychology/ social sciences.....	7,697	2,189	28.4	464	6.0	1,725	22.4	709	9.2	589	7.7	427	5.5

SOURCE: National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*, special tabulations.

Table A-9. Number and percent of foreign S&E doctoral recipients with firm employment offers, by field and type of employer: 1988–96

Field	Foreign S&E doctorates			Type of employer					
	Total	With employment offers	Percent	Education	Percent	Industry	Percent	Government/ private nonprofit	Percent
All S&E fields.....	55,444	9,518	17.2	3,480	6.3	5,298	9.6	739	1.3
Physical sciences.....	9,874	920	9.3	141	1.4	713	7.2	66	0.7
Earth sciences.....	1,541	184	11.9	49	3.2	104	6.7	31	2.0
Mathematics.....	3,490	831	23.8	620	17.8	189	5.4	22	0.6
Computer sciences.....	2,613	1,007	38.5	391	15	591	22.6	25	1.0
Engineering.....	19,030	4,279	22.5	815	4.3	3,256	17.1	208	1.1
Biological sciences.....	9,149	421	4.6	208	2.3	146	1.6	67	0.7
Agricultural sciences	2,050	150	7.3	43	2.1	88	4.3	19	0.9
Psychology/ social sciences.....	7,696	1,725	22.4	1,213	15.8	211	2.7	301	3.9

SOURCE: National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*, special tabulations.